

Title (en)

A process for treating compositions containing noble metals and, optionally, other valuable elements in order to recover said valuables.

Title (de)

Verfahren zur Behandlung von Edelmetallen und gegebenenfalls, andere Wertelemente enthaltende Massen, zwecks Wiedergewinnung der genannten Wertstoffe.

Title (fr)

Procédé de traitement de compositions contenant des métaux précieux et, éventuellement, d'autres éléments de valeur en vue de la récupération de ces espèces.

Publication

**EP 0629712 A1 19941221 (FR)**

Application

**EP 94400963 A 19940504**

Priority

FR 9305697 A 19930512

Abstract (en)

Novel treatment process for the recovery of precious metals such as platinum, palladium and rhodium and optionally other elements of value, such as rare earths and in particular cerium, which are present in various compositions, especially used or spent catalysts, for example motor vehicle exhaust catalysts, the said process being characterised in that it includes the following stages: (i) optionally the composition to be treated is first of all brought to a finely divided state so as to increase its reactivity, (ii) this composition is then mixed with sulphuric acid, (iii) the mixture thus obtained is then calcined between 150 DEG C and 450 DEG C, (iv) and, finally, the product thus calcined is treated in aqueous medium with, on the one hand, H<+> ions and, on the other hand, with chloride ions, this being done simultaneously or separately, whereby there are finally obtained, on the one hand, a solid residue substantially free from precious metals and, optionally, from rare earths such as cerium, and, on the other hand, one or more solutions containing the abovementioned species. The process offers very high recovery yields both for precious metals, in particular rhodium, and for cerium.

IPC 1-7

**C22B 1/06**; **C22B 3/06**; **C22B 3/08**; **C22B 3/10**; **B01J 38/60**; **B01J 23/96**

IPC 8 full level

**B09B 3/00** (2006.01); **B01D 11/02** (2006.01); **B01J 23/56** (2006.01); **B01J 23/96** (2006.01); **B01J 37/00** (2006.01); **B01J 38/60** (2006.01); **C01G 55/00** (2006.01); **C22B 1/06** (2006.01); **C22B 3/04** (2006.01); **C22B 3/08** (2006.01); **C22B 3/10** (2006.01); **C22B 7/00** (2006.01); **C22B 11/00** (2006.01); **C22B 59/00** (2006.01)

CPC (source: EP US)

**B01J 37/0036** (2013.01 - EP US); **B01J 38/60** (2013.01 - EP US); **C22B 3/10** (2013.01 - EP US); **C22B 11/04** (2013.01 - EP US); **C22B 11/048** (2013.01 - EP US); **Y02P 10/20** (2015.11 - EP US)

Citation (search report)

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Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**US 6455018 B1 20020924**; AT E195350 T1 20000815; CA 2123382 A1 19941113; CA 2123382 C 20000321; DE 69425461 D1 20000914; DE 69425461 T2 20010412; EP 0629712 A1 19941221; EP 0629712 B1 20000809; FI 107621 B 20010914; FI 942201 A0 19940511; FI 942201 A 19941113; FR 2705102 A1 19941118; FR 2705102 B1 19950811; JP 2717935 B2 19980225; JP H07144921 A 19950606; NO 304605 B1 19990118; NO 941712 D0 19940509; NO 941712 L 19941114

DOCDB simple family (application)

**US 44111395 A 19950515**; AT 94400963 T 19940504; CA 2123382 A 19940511; DE 69425461 T 19940504; EP 94400963 A 19940504; FI 942201 A 19940511; FR 9305697 A 19930512; JP 12077094 A 19940511; NO 941712 A 19940509